

Amendments to the Specification:

Please insert the following Abstract as a new page after page 20 of the specification:

PEPTIDES FOR PREVENTING, DIAGNOSING AND TREATING  
ANIMAL AND/OR HUMAN LEPTOSPIROSIS

ABSTRACT OF THE INVENTION

Compounds (I) that are the peptide of sequence (1), its homologs with at least 60% homology, or their salts, functional fragments, chemical analogs and chemical derivatives, are new. Compounds (I) that are the peptide of sequence (1), its homologs with at least 60% homology, and their salts, functional fragments, chemical analogs and chemical derivatives are new. Chemical analogs have one or more amino acids (aa) replaced by the D-enantiomer or a non-natural aa or one or more peptide bonds replaced by isosteres such as CH<sub>2</sub>NH, CH<sub>2</sub>S, CH<sub>2</sub>CH<sub>2</sub>, CH=CH, COCH<sub>2</sub>, CH(OH)CH<sub>2</sub> or CH<sub>2</sub>SO. Chemical derivatives are des-alpha amino peptides; N-alpha-acyl substituted by RCO; derivatives substituted at C-terminal carboxy by amino, OR, SR or NHR; derivatives containing a pharmacophore, and polymers of the peptides. R=1-50C alkyl, alkenyl, alkynyl, aryl or cyclic group. Independent claims are also included for: (1) peptides (II) of more than 100 aa that contain (I); (2) antibody that recognizes (I) or (II), and its fragments or derivatives; (3) nucleic acid (III) that encodes (I) and (II); (4) vector that contains (III); (5) recombinant cell containing (III) or the vector of (4); (6) transgenic non-human organism that contains (III) in its cells; and (7) kit for detecting pathogenic strains of *Leptospira* in a biological sample or water that contains (III), as a probe or primer pair. Lys-Ala-Lys-Pro-Val-Gln-Lys-Leu-(Asp)5-Gly-Asp-Asp-Thr-Tyr-Lys-Glu-Glu-Arg-His-Asn-Lys (1).